

Refine Search

Search Results -

Terms	Documents
L69 AND announcement.ab.	1

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L72
 Refine Search

Recall Text
Clear
Interrupt

Search History

DATE: Sunday, February 05, 2006 [Printable Copy](#) [Create Case](#)

<u>Set</u>	<u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set</u>
Name	Query			Name
side by side				result set
DB=USPT; PLUR=NO; OP=OR				
<u>L72</u>	L69 AND announcement.ab.		1	<u>L72</u>
<u>L71</u>	L68 AND wear		5	<u>L71</u>
<u>L70</u>	L69 and (emergency).ab.		1	<u>L70</u>
<u>L69</u>	L68 and interrupt		68	<u>L69</u>
<u>L68</u>	L67 and announcement		166	<u>L68</u>
<u>L67</u>	L66 and emergency		954	<u>L67</u>
<u>L66</u>	music		29114	<u>L66</u>
<u>L65</u>	music and (emergency same annoucement)		0	<u>L65</u>
<u>L64</u>	audio and (emergency same annoucement)		0	<u>L64</u>
<u>L63</u>	music and interupt		23	<u>L63</u>
<u>L62</u>	L61 and network		9	<u>L62</u>
<u>L61</u>	L60 ANd message		13	<u>L61</u>
<u>L60</u>	L59 AND OFF		42	<u>L60</u>

<u>L59</u>	L58 and wireless	45	<u>L59</u>
<u>L58</u>	713/310.cccls.	346	<u>L58</u>
<u>L57</u>	(audible AND (tone OR feedback) and trainer).ab.	4	<u>L57</u>
<u>L56</u>	audible AND (tone OR feedback) and trainer	219	<u>L56</u>
<u>L55</u>	L51 AND emergency.ab.	8	<u>L55</u>
<u>L54</u>	L53 AND emergency.ab.	0	<u>L54</u>
<u>L53</u>	L52 AND ((automatic ADJ pause) OR interrupt OR preempt)	32	<u>L53</u>
<u>L52</u>	L51 AND wear	272	<u>L52</u>
<u>L51</u>	audio AND player and music	5751	<u>L51</u>
<u>L50</u>	audio near preempt	2	<u>L50</u>
<u>L49</u>	audio preempt	122145	<u>L49</u>
<u>L48</u>	L47 and (emergency ADJ announcement)	4	<u>L48</u>
<u>L47</u>	audio and interrupt	12809	<u>L47</u>
<u>L46</u>	L45 and wildlife	2	<u>L46</u>
<u>L45</u>	L44 and recognition	22	<u>L45</u>
<u>L44</u>	L41 AND binocular	22	<u>L44</u>
<u>L43</u>	L42 AND (bird).ab.	1	<u>L43</u>
<u>L42</u>	L41 and network	584	<u>L42</u>
<u>L41</u>	bird AND recognition	2889	<u>L41</u>
<u>L40</u>	(Form ADJ trainer) AND workout	3	<u>L40</u>
<u>L39</u>	L38 AND (Form ADJ trainer)	0	<u>L39</u>
<u>L38</u>	L37 and (kinesiology OR kinetics)	61	<u>L38</u>
<u>L37</u>	L35 AND movement	6977	<u>L37</u>
<u>L36</u>	L35 AND (desired ADJ movement)	0	<u>L36</u>
<u>L35</u>	L34 and wireless	15450	<u>L35</u>
<u>L34</u>	sensor	380803	<u>L34</u>
<u>L33</u>	black.XP. AND GPS.ti.	16	<u>L33</u>
<u>L32</u>	L31 and wireless	2	<u>L32</u>
<u>L31</u>	L30 and (lap ADJ counter)	31	<u>L31</u>
<u>L30</u>	swimming or swimmer	15943	<u>L30</u>
<u>L29</u>	L28 and wireless	6	<u>L29</u>
<u>L28</u>	pedometer.ti.	61	<u>L28</u>
<u>L27</u>	L26 and lactate.ab.	1	<u>L27</u>
<u>L26</u>	L25 and (heart ADJ rate)	12	<u>L26</u>
<u>L25</u>	L24 and workout	17	<u>L25</u>
<u>L24</u>	lactate	31938	<u>L24</u>
<u>L23</u>	L22 AND wireless	2	<u>L23</u>
<u>L22</u>	(VO2MAX) OR (VO2 ADJ MAX)	17	<u>L22</u>
<u>L21</u>	6000000.pn.	1	<u>L21</u>
<u>L20</u>	Workout and collect and results	32	<u>L20</u>
<u>L19</u>	Workout and excercise	15	<u>L19</u>

<u>L18</u>	Lifecycle AND workout AND routine	2	<u>L18</u>
<u>L17</u>	Licecycle AND workout AND routine	0	<u>L17</u>
<u>L16</u>	L15 AND helmet	3	<u>L16</u>
<u>L15</u>	L13 AND wear	87	<u>L15</u>
<u>L14</u>	L13 ADJ wear	0	<u>L14</u>
<u>L13</u>	wireless ADJ receiver	1619	<u>L13</u>
<u>L12</u>	wireless ADJ audio	144	<u>L12</u>
<u>L11</u>	bone ADJ phone	2	<u>L11</u>
<u>L10</u>	L9 and wireless	34	<u>L10</u>
<u>L9</u>	wearable ADJ display	100	<u>L9</u>
<u>L8</u>	werable ADJ display	0	<u>L8</u>
<u>L7</u>	L6 AND (wireless)	7	<u>L7</u>
<u>L6</u>	(Pressure ADJ sensor AND switch).aB.	207	<u>L6</u>
<u>L5</u>	L4 AND ON	10	<u>L5</u>
<u>L4</u>	L3 and display	5201	<u>L4</u>
<u>L3</u>	Pressure ADJ sensor AND switch	16517	<u>L3</u>
<u>L2</u>	6057966.pn. OR 6606993.pn. OR 6934571.pn. OR 6985078.pn. OR 5702323.pn.	5	<u>L2</u>
<u>L1</u>	6057966.pn. OR 6606993.pn. OR 6934571.pn. OR 6985078.pn. OR 5702323	26	<u>L1</u>

END OF SEARCH HISTORY

Hit List

First Hit	Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACs					

Search Results - Record(s) 1 through 34 of 34 returned.

1. Document ID: US 6975991 B2

L10: Entry 1 of 34

File: USPT

Dec 13, 2005

US-PAT-NO: 6975991

DOCUMENT-IDENTIFIER: US 6975991 B2

TITLE: Wearable display system with indicators of speakers

DATE-ISSUED: December 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Basson; Sara H.	White Plains	NY		
Kanevsky; Dimitri	Ossining	NY		

US-CL-CURRENT: 704/271

ABSTRACT:

Methods and systems for creating a comfortable, user-friendly environment that allows a hearing impaired user to identify who is speaking and preferably what is being said during interactions with other individuals, e.g., at any form of meeting. In accordance with the invention, it is determined whether or not someone is speaking. If yes, then the speaker's position is identified. It is also determined whether the speaker is in the range of view for the user's display. If yes, an illuminated dot is projected above the speaker on a wearable display to show the user where the speaker is located. If no, a directional arrow is projected on the display to indicate to the user which way he should look to see the current speaker.

26 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	TOC	Dra
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2. Document ID: US 6954893 B2

L10: Entry 2 of 34

File: USPT

Oct 11, 2005

US-PAT-NO: 6954893

DOCUMENT-IDENTIFIER: US 6954893 B2

TITLE: Method and apparatus for reliable unidirectional communication in a data network

DATE-ISSUED: October 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ternullo; Noah J.	Pittsburgh	PA		
Mehravari; Nader	Ithaca	NY		
Madden; Patrick H.	Owego	NY		

US-CL-CURRENT: 714/807

ABSTRACT:

A system and method for performing reliable unidirectional communication in a data network is disclosed. Unidirectional data is sent from a transmitting device to a receiving device. Prior to transmission, the data is divided into a window (401b) comprised of data bytes. A checksum value (407) is computed across data bytes comprising window (401b). Checksum value (407) is placed into an XML integrity element (404) that encapsulates window (401b) in a manner allowing a receiving device to use the contents of integrity element (404) to validate the received window (401b). Checksum value (407) is compared to a second check sum value computed across window (401b) at the receiving device. If checksum value (407) matches the second checksum value, window (401b) is validated.

21 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

3. Document ID: US 6947219 B1

L10: Entry 3 of 34

File: USPT

Sep 20, 2005

US-PAT-NO: 6947219

DOCUMENT-IDENTIFIER: US 6947219 B1

TITLE: Focus adjustable head mounted display system for displaying digital contents and device for realizing the system

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ou; Shu-Fong	Taipei Hsien			TW

US-CL-CURRENT: 359/630; 345/7, 351/158

ABSTRACT:

A focus adjustable head mounted display system used in a head mounted display device for displaying digital contents comprising: a digital content storage unit for storing digital data including audio data and image data; an signal processing unit for receiving image signals from the digital content storage unit and processing the received image signals; a focus adjustment unit for adjusting an input image from the digital content storage unit according an input focus adjustment signal so that the adjusted display image responses the focus adjustment signal; an image display unit installed at a head mounted display device for displaying the adjusted display image; a focus input unit being a manually operation device for generating a focus adjustment signal to the signal processing unit; and the focus input unit providing a focus value to the focus adjustment software. A head mounted display device for realizing the focus adjustable head mounted display system is also disclosed.

30 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Document ID	Claims	KOMC	Dra
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4. Document ID: US 6943755 B1

L10: Entry 4 of 34

File: USPT

Sep 13, 2005

US-PAT-NO: 6943755

DOCUMENT-IDENTIFIER: US 6943755 B1

TITLE: Card-enabled, head-wearable secondary display systems

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bartow; Douglas Bowen	Greensboro	NC		

US-CL-CURRENT: 345/8; 345/7

ABSTRACT:

Simple, inexpensive, lightweight secondary display systems are provided which extract video data and a direct coupled (DC) voltage from the CardBus slot of a computer. The video data is converted to a video display signal in a video controller and preferably coupled to a head-wearable display (HWD) over an optical fiber. The HWD is powered by the DC voltage which is coupled to it by a metallic conductor bundled with the optical fiber.

38 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Document ID	Claims	KOMC	Dra
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 5. Document ID: US 6879443 B2

L10: Entry 5 of 34

File: USPT

Apr 12, 2005

US-PAT-NO: 6879443

DOCUMENT-IDENTIFIER: US 6879443 B2

TITLE: Binocular viewing system

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spitzer; Mark B.	Sharon	MA		
Hunter; Gregory H.	Dover	MA		
Zavracky; Paul M.	Norwood	MA		

US-CL-CURRENT: 359/630; 345/8

ABSTRACT:

A binocular viewing system provides images from electronic display elements to the left and right eyes of a user transmitted via right eye and left eye display assemblies connected by a nose bridging element. The binocular viewing system includes an interpupillary distance adjustment mechanism to accommodate multiple users. Accommodation for vision correction and a focus mechanism may also be provided. Also, the binocular viewing system provides a virtual image at a distance less than infinity, in an arrangement that also accommodates a range of interpupillary distances. In other aspects, the binocular viewing system incorporates face curvature to more comfortably fit a user's head, and places the electronic display elements close to the user's eye, either in the line of sight, or within the nose bridging element.

75 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KOMC	Drawn D.
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 6. Document ID: US 6834395 B2

L10: Entry 6 of 34

File: USPT

Dec 28, 2004

US-PAT-NO: 6834395

DOCUMENT-IDENTIFIER: US 6834395 B2

TITLE: High visibility safety garment

DATE-ISSUED: December 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuentes; Ricardo Indalecio	Hopewell Junction	NY	12533	

US-CL-CURRENT: 2/69; 362/103

ABSTRACT:

The present invention relates generally to high visibility garment, and more specifically to high visibility safety garment. Method, apparatus, device and an article of clothing implementing the invention are also disclosed.

19 Claims, 22 Drawing figures

Exemplary Claim Number: 10

Number of Drawing Sheets: 5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document List](#) | [Search](#) | [Help](#) | [Claims](#) | [RWD](#) | [Drawn D.](#)

7. Document ID: US 6830344 B2

L10: Entry 7 of 34

File: USPT

Dec 14, 2004

US-PAT-NO: 6830344

DOCUMENT-IDENTIFIER: US 6830344 B2

** See image for Certificate of Correction **

TITLE: Wearable projector and intelligent clothing

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reho; Akeseli	Kankaapaa			FI
Impio ; Jussi	Kankaanpaa			FI

US-CL-CURRENT: 353/122; 353/28

ABSTRACT:

The invention relates to a wearable display means (202) of projector type and to a garment (700). The invention relates specifically to a miniature projector (202), which is worn by the user and whose application is compatible with wearable electronic data processing systems (220, 222, 224). One concept of the invention is to project the electronic information generated by wearable electronic devices (220, 222, 224) connected to the projector (202) in the user's field of vision by means of the projector (202). The projector (202) of the invention is equipped with a matrix consisting of at least one Resonance Cavity LED or a micro-mirror and with electronics (300) and optics (314) necessary for projecting. The projector (202) and the electronic devices (220, 222, 224) are integrated in the garment (700) of the invention.

21 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search	Print	Claims	KWIC	Dra
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8. Document ID: US 6826532 B1

L10: Entry 8 of 34

File: USPT

Nov 30, 2004

US-PAT-NO: 6826532

DOCUMENT-IDENTIFIER: US 6826532 B1

TITLE: Hands free automotive service system

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Casby; Alan D.	Conway	AR		
Coburn, II; David R.	Maumelle	AR		
Gill; George M.	Vilonia	AR		
Poe; Richard J.	Conway	AR		
Rogers; Steven W.	Maumelle	AR		

US-CL-CURRENT: 704/270

ABSTRACT:

A voice control system for an automotive service system includes a microphone, through which a technician can communicate voice commands to an item of automotive service equipment within the automotive service system, a speech processor module for converting the voice commands into digital instructions which can be processed by a system controller and for converting data from the system controller into synthesized voice audio, and a speaker for communicating the synthesized voice audio to the technician. The system of the present invention may also include a pair of goggles incorporating a heads-up display which displays the data from the system controller by virtual image in the technician's forward field of vision without blocking his general forward field of view.

14 Claims, 4 Drawing figures

Exemplary Claim Number: 5

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search	Print	Claims	KWIC	Dra
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9. Document ID: US 6825829 B1

L10: Entry 9 of 34

File: USPT

Nov 30, 2004

US-PAT-NO: 6825829

DOCUMENT-IDENTIFIER: US 6825829 B1

TITLE: Adhesive backed displays

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albert; Jonathan D.	Cambridge	MA		
Comiskey; Barrett	Cambridge	MA		
Wilcox; Russell J.	Natick	MA		

US-CL-CURRENT: 345/107; 359/296

ABSTRACT:

A process for creating an electronically addressable display includes multiple printing operations, similar to a multi-color process in conventional screen printing. In some of the process steps, electrically non-active inks are printed onto areas of the receiving substrate, and in other steps, electrically active inks are printed onto different areas of the substrate. The printed display can be used in a variety of applications. This display can be used as an indicator by changing state of the display after a certain time has elapsed, or when a certain pressure, thermal, radiative, moisture, acoustic, inclination, pH, or other threshold is passed. In one embodiment, the display is incorporated into a battery indicator. A sticker display is described. The sticker is adhesive backed and may then be applied to a surface to create a functional information display unit. This invention also features a display that is both powered and controlled using radio frequencies. It describes a complete system for controlling, addressing, and powering a display. The system includes an antenna or antennae, passive charging circuitry, and active control system, a display, and an energy storage unit. There is also a separate transmitter that provides the remote power for the display. The system is meant to be used anywhere it is useful to provide intermittent updates of information such as in a store, on a highway, or in an airport. A tile-based display allowing a modular system for large area display is created using a printable display material.

15 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Patent	Links	Claims	RWIC	Draft
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10. Document ID: US 6768419 B2

L10: Entry 10 of 34

File: USPT

Jul 27, 2004

US-PAT-NO: 6768419

DOCUMENT-IDENTIFIER: US 6768419 B2

** See image for Certificate of Correction **

TITLE: Applications for radio frequency identification systems

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garber; Sharon R.	Crystal	MN		
Gonzalez; Bernard A.	St. Paul	MN		
Grunes; Mitchell B.	Minneapolis	MN		
Jackson; Richard H.	Inver Grove Heights	MN		
Karel; Gerald L.	Maplewood	MN		
Kruse; John M.	Minneapolis	MN		
Lindahl; Richard W.	Oakdale	MN		
Nash; James E.	Bloomington	MN		
Piotrowski; Chester	White Bear Lake	MN		
Yorkovich; John D.	Maplewood	MN		

US-CL-CURRENT: 340/572.4; 235/385, 340/10.1, 340/693.1

ABSTRACT:

The present invention relates to RFID devices, including handheld RFID devices, and applications for such devices. The devices and applications may be used in connection with items that are associated with an RFID tag, and optionally a magnetic security element. The devices and applications are described with particular reference to library materials such as books, periodicals, and magnetic and optical media.

5 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [PDF](#) | [Claims](#) | [TOOC](#) | [Drawn D.](#)

11. Document ID: US 6746402 B2

L10: Entry 11 of 34

File: USPT

Jun 8, 2004

US-PAT-NO: 6746402

DOCUMENT-IDENTIFIER: US 6746402 B2

TITLE: Ultrasound system and method

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ustuner; E. Tuncay	Mountain View	CA	94043	

US-CL-CURRENT: 600/462

ABSTRACT:

A surgery dedicated ultrasound system is described. The system is used for imaging and/or guidance and/or controlling purposes. The surgeon uses and controls the

system and accesses the information obtained and processed through the system while performing surgery.

50 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document ID](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

12. Document ID: US 6639578 B1

L10: Entry 12 of 34

File: USPT

Oct 28, 2003

US-PAT-NO: 6639578

DOCUMENT-IDENTIFIER: US 6639578 B1

TITLE: Flexible displays

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Comiskey; Barrett	Cambridge	MA		
Albert; Jonathan D.	Cambridge	MA		
Jacobson; Joseph M.	Newton Centre	MA		
Zhang; Libing	Quincy	MA		
Loxley; Andrew	Somerville	MA		
Feeney; Robert	Scituate	MA		
Drzaic; Paul	Lexington	MA		

US-CL-CURRENT: 345/107, 204/606, 349/86, 359/296

ABSTRACT:

A process for creating an electronically addressable display includes multiple printing operations, similar to a multi-color process in conventional screen printing. In some of the process steps, electrically non-active inks are printed onto areas of the receiving substrate, and in other steps, electrically active inks are printed onto different areas of the substrate. The printed display can be used in a variety of applications. This display can be used as an indicator by changing state of the display after a certain time has elapsed, or when a certain pressure, thermal, radiative, moisture, acoustic, inclination, pH, or other threshold is passed. In one embodiment, the display is incorporated into a battery indicator. A sticker display is described. The sticker is adhesive backed and may then be applied to a surface to create a functional information display unit. This invention also features a display that is both powered and controlled using radio frequencies. It describes a complete system for controlling, addressing, and powering a display. The system includes an antenna or antennae, passive charging circuitry, and active control system, a display, and an energy storage unit. There is also a separate transmitter that provides the remote power for the display. The system is meant to be used anywhere it is useful to provide intermittent updates of information such as in a store, on a highway, or in an airport. A tile-based display allowing a modular system for large area display is created using a

printable display material.

14 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document List](#) | [Print](#) | [Claims](#) | [RIMIC](#) | [Drawn D...](#)

13. Document ID: US 6636249 B1

L10: Entry 13 of 34

File: USPT

Oct 21, 2003

US-PAT-NO: 6636249

DOCUMENT-IDENTIFIER: US 6636249 B1

TITLE: Information processing apparatus and method, information processing system, and providing medium

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rekimoto; Junichi	Tokyo			JP

US-CL-CURRENT: 715/849; 345/419, 715/850, 715/852

ABSTRACT:

The invention enables users to virtually attach information to situations in the real world, and also enables users to quickly and easily find out desired information. An IR sensor receives an IR signal transmitted from an IR beacon, and supplies the received signal to a sub-notebook PC. A CCD video camera takes in a visual ID from an object, and supplies the inputted visual ID to the sub-notebook PC. A user inputs, through a microphone, a voice to be attached to situations in the real world. The sub-notebook PC transmits position data, object data and voice data, which have been supplied to it, to a server through a communication unit. The transmitted data is received by the server via a wireless LAN. The server stores the received voice data in a database in correspondence to the position data and the object data.

22 Claims, 33 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 30

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document List](#) | [Print](#) | [Claims](#) | [RIMIC](#) | [Drawn D...](#)

14. Document ID: US 6614948 B2

L10: Entry 14 of 34

File: USPT

Sep 2, 2003

US-PAT-NO: 6614948

DOCUMENT-IDENTIFIER: US 6614948 B2

TITLE: Electrically switchable optical elements using wavelength locked feedback loops

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobowitz; Lawrence	Wappingers Falls	NY		
DeCusatis; Casimer M.	Poughkeepsie	NY		

US-CL-CURRENT: 385/10; 385/16, 385/17, 385/18, 385/8, 385/9

ABSTRACT:

Electrically switchable optical elements, such as application specific integrated elements including filters, lenses and switches, are combined with wavelength locked feedback loops. Electrically Switchable Bragg Grating (ESBG) technology is combined with a wavelength locked feedback loop to provide variable focal length optical systems which automatically adjust the focal length of incident light.

20 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document](#) | [Claims](#) | [RICO](#) | [Drawn D.](#)

15. Document ID: US 6614408 B1

L10: Entry 15 of 34

File: USPT

Sep 2, 2003

US-PAT-NO: 6614408

DOCUMENT-IDENTIFIER: US 6614408 B1

TITLE: Eye-tap for electronic newsgathering, documentary video, photojournalism, and personal safety

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mann; W. Stephen G.	Toronto, Ontario		M5S 3O4	CA

US-CL-CURRENT: 345/8; 345/7, 345/9

ABSTRACT:

A novel system for a new kind of electronic news gathering and videography is described. In particular, a camera that captures light passing through the center of a lens of an eye of the user is described. Such an electronic newsgathering system allows the eye itself to, in effect, function as a camera. In wearable

embodiments of the invention, a journalist wearing the apparatus becomes, after adaptation, an entity that seeks, without conscious thought or effort, an optimal point of vantage and camera orientation. Moreover, the journalist can easily become part of a human intelligence network, and draw upon the intellectual resources and technical photographic skills of a large community. Because of the journalist's ability to constantly see the world through the apparatus of the invention, which may also function as an image enhancement device, the apparatus behaves as a true extension of the journalist's mind and body, giving rise to a new genre of documentary video. In this way, it functions as a seamless communications medium that uses a reality-based user-interface.

43 Claims, 21 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	TOC	DOC	Image	Claims	INPC	Dra
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16. Document ID: US 6556971 B1

L10: Entry 16 of 34

File: USPT

Apr 29, 2003

US-PAT-NO: 6556971

DOCUMENT-IDENTIFIER: US 6556971 B1

TITLE: Computer-implemented speech recognition system training

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rigsby; Stephen	Conway	AR		
Walchuk; Donald L.	Conway	AR		

US-CL-CURRENT: 704/270; 33/286, 704/275

ABSTRACT:

Computer-implemented speech recognition system training including displaying an icon representing a concept, prompting a user to generate a vocalization comprising any sound determined by the user to associate to the icon, confirming association of the vocalization with the icon, and saving the association of the vocalization with the icon to a computer readable medium. The invention has particular applicability, but is not limited, to the field of vehicle diagnostics including vehicle wheel alignment or vehicle engine diagnostics.

20 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	TOC	DOC	Image	Claims	INPC	Dra
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17. Document ID: US 6486780 B1

L10: Entry 17 of 34

File: USPT

Nov 26, 2002

US-PAT-NO: 6486780

DOCUMENT-IDENTIFIER: US 6486780 B1

** See image for Certificate of Correction **

TITLE: Applications for radio frequency identification systems

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garber; Sharon R.	Crystal	MN		
Gonzalez; Bernard A.	St. Paul	MN		
Grunes; Mitchell B.	Minneapolis	MN		
Jackson; Richard H.	Inver Grove Heights	MN		
Karel; Gerald L.	Maplewood	MN		
Kruse; John M.	Minneapolis	MN		
Lindahl; Richard W.	Oakdale	MN		
Nash; James E.	Bloomington	MN		
Piotrowski; Chester	White Bear Lake	MN		
Yorkovich; John D.	Maplewood	MN		

US-CL-CURRENT: 340/572.1; 235/385, 340/5.92

ABSTRACT:

The present invention relates to RFID devices, including handheld RFID devices, and applications for such devices. The devices and applications may be used in connection with items that are associated with an RFID tag, and optionally a magnetic security element. The devices and applications are described with particular reference to library materials such as books, periodicals, and magnetic and optical media.

29 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RDMC	Dra...
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 18. Document ID: US 6459418 B1

L10: Entry 18 of 34

File: USPT

Oct 1, 2002

US-PAT-NO: 6459418

DOCUMENT-IDENTIFIER: US 6459418 B1

TITLE: Displays combining active and non-active inks

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Comiskey; Barrett	Cambridge	MA		
Jacobson; Joseph M.	Newton Centre	MA		

US-CL-CURRENT: 345/107, 345/87, 345/901, 349/187, 349/86, 359/296

ABSTRACT:

A process for creating an electronically addressable display includes multiple printing operations, similar to a multi-color process in conventional screen printing. In some of the process steps, electrically non-active inks are printed onto areas of the receiving substrate, and in other steps, electrically active inks are printed onto different areas of the substrate. The printed display can be used in a variety of applications. This display can be used as an indicator by changing state of the display after a certain time has elapsed, or when a certain pressure, thermal, radiative, moisture, acoustic, inclination, pH, or other threshold is passed. In one embodiment, the display is incorporated into a battery indicator. A sticker display is described. The sticker is adhesive backed and may then be applied to a surface to create a functional information display unit. This invention also features a display that is both powered and controlled using radio frequencies. It describes a complete system for controlling, addressing, and powering a display. The system includes an antenna or antennae, passive charging circuitry, and active control system, a display, and an energy storage unit. There is also a separate transmitter that provides the remote power for the display. The system is meant to be used anywhere it is useful to provide intermittent updates of information such as in a store, on a highway, or in an airport. A tile-based display allowing a modular system for large area display is created using a printable display material.

12 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document ID](#) | [Claims](#) | [KIMC](#) | [Drawn D.](#)

19. Document ID: US 6448886 B2

L10: Entry 19 of 34

File: USPT

Sep 10, 2002

US-PAT-NO: 6448886

DOCUMENT-IDENTIFIER: US 6448886 B2

** See image for Certificate of Correction **

TITLE: Application for radio frequency identification systems

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garber; Sharon R.	Crystal	MN		

Gonzalez; Bernard A.	St. Paul	MN
Grunes; Mitchell B.	Minneapolis	MN
Jackson; Richard H.	Inver Grove Heights	MN
Karel; Gerald L.	Maplewood	MN
Kruse; John M.	Minneapolis	MN
Lindahl; Richard W.	Oakdale	MN
Nash; James E.	Bloomington	MN
Piotrowski; Chester	White Bear Lake	MN
Yorkovich; John D.	Maplewood	MN

US-CL-CURRENT: 340/10.1; 235/385, 340/572.4

ABSTRACT:

The present invention relates to RFID devices, including handheld RFID devices, and applications for such devices. The devices and applications may be used in connection with items that are associated with an RFID tag, and optionally a magnetic security element. The devices and applications are described with particular reference to library materials such as books, periodicals, and magnetic and optical media.

17 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMPC	Drawn D.
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20. Document ID: US 6424262 B2

L10: Entry 20 of 34

File: USPT

Jul 23, 2002

US-PAT-NO: 6424262

DOCUMENT-IDENTIFIER: US 6424262 B2

** See image for Certificate of Correction **

TITLE: Applications for radio frequency identification systems

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garber; Sharon R.	Crystal	MN		
Gonzalez; Bernard A.	St. Paul	MN		
Grunes; Mitchell B.	Minneapolis	MN		
Jackson; Richard H.	Inver Grove Heights	MN		
Karel; Gerald L.	Maplewood	MN		
Kruse; John M.	Minneapolis	MN		
Lindahl; Richard W.	Oakdale	MN		
Nash; James E.	Bloomington	MN		
Piotrowski; Chester	White Bear Lake	MN		

Yorkovich; John D. Maplewood

MN

US-CL-CURRENT: 340/572.3; 335/284

ABSTRACT:

The present invention relates to RFID devices, including handheld RFID devices, and applications for such devices. The devices and applications may be used in connection with items that are associated with an RFID tag, and optionally a magnetic security element. The devices and applications are described with particular reference to library materials such as books, periodicals, and magnetic and optical media.

13 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document List](#) | [Search](#) | [Help](#) | [Claims](#) | [TOOC](#) | [Drawings](#)

21. Document ID: US 6384741 B1

L10: Entry 21 of 34

File: USPT

May 7, 2002

US-PAT-NO: 6384741

DOCUMENT-IDENTIFIER: US 6384741 B1

TITLE: Apparatus and method for providing high mounted view of traffic

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Leary, Sr.; Jerry P.	Potomac	MD	20854	

US-CL-CURRENT: 340/937; 340/905, 348/149

ABSTRACT:

A camera or fiber optic lens is raised from an automobile on a retractable support to a height sufficient to view over SUVs to perceive an image of traffic beyond an obstructive SUV and transmit the image to a display that is viewable by the driver.

18 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document List](#) | [Search](#) | [Help](#) | [Claims](#) | [TOOC](#) | [Drawings](#)

22. Document ID: US 6307526 B1

L10: Entry 22 of 34

File: USPT

Oct 23, 2001

US-PAT-NO: 6307526

DOCUMENT-IDENTIFIER: US 6307526 B1

**** See image for Certificate of Correction ****

TITLE: Wearable camera system with viewfinder means

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mann; W. Steve G.	Toronto, Ontario			CA

US-CL-CURRENT: 345/8; 345/7, 348/115, 348/207.1

ABSTRACT:

A novel means and apparatus for a new kind of photography and videography is described. In particular, a wearable camera with a viewfinder suitable for long-term use is introduced. The system, in effect, absorbs and quantifies rays of light and processes this quantigraphic information on a small wearable computer system, then the processed information is re-constituted into light rays emerging to reconstruct the virtual image of objects at nearly the same position in space, or at a coordinate transformed position, as viewed by the wearer of the apparatus. The wearer of the apparatus becomes, after adaptation, an entity that seeks, without conscious thought or effort, an optimal point of vantage and camera orientation. Because of the wearer's ability to constantly see the world through the apparatus, which may also function as an image enhancement device, the apparatus behaves as a true extension of the wearer's mind and body, giving rise to a new genre of documentary video.

4 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Document ID	Claims	KOMC	Dra
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□ 23. Document ID: US 6252564 B1

L10: Entry 23 of 34

File: USPT

Jun 26, 2001

US-PAT-NO: 6252564

DOCUMENT-IDENTIFIER: US 6252564 B1

TITLE: Tiled displays

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albert; Jonathan D.	Cambridge	MA		

Comiskey; Barrett

Cambridge

MA

US-CL-CURRENT: 345/1.3; 345/107, 345/85**ABSTRACT:**

A process for creating an electronically addressable display includes multiple printing operations, similar to a multi-color process in conventional screen printing. In some of the process steps, electrically non-active inks are printed onto areas of the receiving substrate, and in other steps, electrically active inks are printed onto different areas of the substrate. The printed display can be used in a variety of applications. This display can be used as an indicator by changing state of the display after a certain time has elapsed, or when a certain pressure, thermal, radiative, moisture, acoustic, inclination, pH, or other threshold is passed. In one embodiment, the display is incorporated into a battery indicator. A sticker display is described. The sticker is adhesive backed and may then be applied to a surface to create a functional information display unit. This invention also features a display that is both powered and controlled using radio frequencies. It describes a complete system for controlling, addressing, and powering a display. The system includes an antenna or antennae, passive charging circuitry, and active control system, a display, and an energy storage unit. There is also a separate transmitter that provides the remote power for the display. The system is meant to be used anywhere it is useful to provide intermittent updates of information such as in a store, on a highway, or in an airport. A tile-based display allowing a modular system for large area display is created using a printable display material.

16 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	TOC	DOC	Image	Claims	RDMC	Draw
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 24. Document ID: US 6232870 B1

L10: Entry 24 of 34

File: USPT

May 15, 2001

US-PAT-NO: 6232870

DOCUMENT-IDENTIFIER: US 6232870 B1

** See image for Certificate of Correction **

TITLE: Applications for radio frequency identification systems

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garber; Sharon R.	Crystal	MN		
Gonzalez; Bernard A.	St. Paul	MN		
Grunes; Mitchell B.	Minneapolis	MN		
Jackson; Richard H.	Inver Grove Heights	MN		
Karel; Gerald L.	Maplewood	MN		
Kruse; John M.	Minneapolis	MN		

Lindahl; Richard W.	Oakdale	MN
Nash; James E.	Bloomington	MN
Piotrowski; Chester	White Bear Lake	MN
Yorkovich; John D.	Maplewood	MN

US-CL-CURRENT: 340/10.1; 235/385, 340/572.4

ABSTRACT:

The present invention relates to RFID devices, including handheld RFID devices, and applications for such devices. The devices and applications may be used in connection with items that are associated with an RFID tag, and optionally a magnetic security element. The devices and applications are described with particular reference to library materials such as books, periodicals, and magnetic and optical media.

21 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWNC	Drawn D.
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25. Document ID: US 6178141 B1

L10: Entry 25 of 34

File: USPT

Jan 23, 2001

US-PAT-NO: 6178141

DOCUMENT-IDENTIFIER: US 6178141 B1

TITLE: Acoustic counter-sniper system

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Duckworth; Gregory L.	Belmont	MA		
Barger; James E.	Winchester	MA		
Gilbert; Douglas C.	Ledyard	CT		

US-CL-CURRENT: 367/127; 367/124, 367/906

ABSTRACT:

A low cost and highly accurate sniper detection and localization system uses observations of the shock wave from supersonic bullets to estimate the bullet trajectory, Mach number, and caliber. If available, muzzle blast observations from an unsilenced firearm is used to estimate the exact sniper location along the trajectory. The system may be fixed or portable and may be wearable on a user's body. The system utilizes a distributed array of acoustic sensors to detect the projectile's shock wave and the muzzle blast from a firearm. The detection of the shock wave and muzzle blast is used to measure the wave arrival times of each waveform type at the sensors. This time of arrival (TOA) information for the shock

wave and blast wave are used to determine the projectile's trajectory and a line of bearing to the origin of the projectile. A very accurate model of the bullet ballistics and acoustic radiation is used which includes bullet deceleration. This allows the use of very flexible acoustic sensor types and placements, since the system can model the bullet's flight, and hence the acoustic observations, over a wide area very accurately. System sensor configurations can be as simple as two small three element tetrahedral microphone arrays on either side of the area to be protected or six omnidirectional microphones spread over the area to be monitored. Sensors may also be monitored to a helmet as used with the wearable system. Sensor nodes provide information to a command node via wireless network telemetry or hardwired cables for the command node comprising a computer to effect processing and display.

19 Claims, 21 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWMC	Draw
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26. Document ID: US 6118426 A

L10: Entry 26 of 34

File: USPT

Sep 12, 2000

US-PAT-NO: 6118426

DOCUMENT-IDENTIFIER: US 6118426 A

** See image for Certificate of Correction **

TITLE: Transducers and indicators having printed displays

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albert; Jonathan D.	Cambridge	MA		
Comiskey; Barrett	Cambridge	MA		
Jacobson; Joseph M.	Newton Centre	MA		

US-CL-CURRENT: 345/107, 315/150, 324/96, 340/5.2, 340/825.56, 345/108, 359/296, 40/455, 429/93

ABSTRACT:

A process for creating an electronically addressable display includes multiple printing operations, similar to a multi-color process in conventional screen printing. In some of the process steps, electrically non-active inks are printed onto areas of the receiving substrate, and in other steps, electrically active inks are printed onto different areas of the substrate. The printed display can be used in a variety of applications. This display can be used as an indicator by changing state of the display after a certain time has elapsed, or when a certain pressure, thermal, radiative, moisture, acoustic, inclination, pH, or other threshold is passed. In one embodiment, the display is incorporated into a battery indicator. A sticker display is described. The sticker is adhesive backed and may then be applied to a surface to create a functional information display unit. This invention also features a display that is both powered and controlled using radio

frequencies. It describes a complete system for controlling, addressing, and powering a display. The system includes an antenna or antennae, passive charging circuitry, and active control system, a display, and an energy storage unit. There is also a separate transmitter that provides the remote power for the display. The system is meant to be used anywhere it is useful to provide intermittent updates of information such as in a store, on a highway, or in an airport. A tile-based display allowing a modular system for large area display is created using a printable display material.

20 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	TOC	Dra
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27. Document ID: US 6108197 A

L10: Entry 27 of 34

File: USPT

Aug 22, 2000

US-PAT-NO: 6108197

DOCUMENT-IDENTIFIER: US 6108197 A

** See image for Certificate of Correction **

TITLE: Flexible wearable computer

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janik; Craig M.	Palo Alto	CA		

US-CL-CURRENT: 361/683

ABSTRACT:

A wearable computing device includes computing-device component modules and flexible circuitry passing into the modules. The modules can include a top module portion and a bottom module portion, the flexible circuitry passing between the top and bottom portions. Wireless communication, e.g. by radio frequency, with a peripheral and/or a local area network is also contemplated.

29 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	TOC	Dra
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28. Document ID: US 6085428 A

L10: Entry 28 of 34

File: USPT

Jul 11, 2000

US-PAT-NO: 6085428
DOCUMENT-IDENTIFIER: US 6085428 A
** See image for Certificate of Correction **

TITLE: Hands free automotive service system

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Casby; Alan D.	Conway	AR		
Coburn, II; David R.	Maumelle	AR		
Gill; George M.	Vilonia	AR		
Poe; Richard J.	Conway	AR		
Rogers; Steven W.	Maumelle	AR		

US-CL-CURRENT: 33/286; 345/8, 356/155

ABSTRACT:

A voice control system for an automotive service system includes a microphone, through which a technician can communicate voice commands to an item of automotive service equipment within the automotive service system, a speech processor module for converting the voice commands into digital instructions which can be processed by a system controller and for converting data from the system controller into synthesized voice audio, and a speaker for communicating the synthesized voice audio to the technician. The system of the present invention may also include a pair of goggles incorporating a heads-up display which displays the data from the system controller by virtual image in the technician's forward field of vision without blocking his general forward field of view.

20 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Print](#) | [Email](#) | [Claims](#) | [RICO](#) | [Drawn](#)

29. Document ID: US 6005536 A

L10: Entry 29 of 34

File: USPT

Dec 21, 1999

US-PAT-NO: 6005536

DOCUMENT-IDENTIFIER: US 6005536 A

TITLE: Captioning glasses

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beadles; Robert L.	Durham	NC		
Kirkland; C. Eric	Rockville	MD		

US-CL-CURRENT: 345/7; 345/8, 345/9, 348/115, 359/631, 359/632

ABSTRACT:

A wearable display device displays a sequence of words into the field of view of a person wearing the device in order to communicate information to the person, such as captions for hearing-impaired persons or translations of speech spoken by another person. Various embodiments of the device include an eyeglass frame configured to be worn by the person, a housing mounted to the eyeglass frame, including a circuit for receiving a signal containing the sequence of words, a display for displaying the sequence of words received by the circuit, a mirror mounted to reflect the displayed sequence of words downwardly through the housing, and a lens disposed in the path of the mirror to magnify the displayed sequence of words downwardly reflected by the mirror, and a partially reflective beamsplitter, mounted to the housing and extending downwardly over an eye of the person, for receiving the downwardly reflected sequence of words and projecting them into the field of view of the person. The display itself may be moved along a recess in the housing to focus the words onto the beamsplitter. A curved beamsplitter may be used instead of a lens to magnify the words and provide optical correction.

47 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINIC	Dra
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30. Document ID: US 5798907 A

L10: Entry 30 of 34

File: USPT

Aug 25, 1998

US-PAT-NO: 5798907

DOCUMENT-IDENTIFIER: US 5798907 A

TITLE: Wearable computing device with module protrusion passing into flexible circuitry

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janik; Craig M.	Palo Alto	CA		

US-CL-CURRENT: 361/683; 361/686, 361/733, 361/749

ABSTRACT:

A wearable computing device includes at least one computing-device component module and flexible circuitry operably connected to the module. The module includes a top module portion, a bottom module portion, and at least one protrusion for holding the top module portion in substantially fixed relationship with the bottom module portion. The protrusion passes into and/or through the flexible circuitry. A plurality of such modules are also contemplated.

19 Claims, 29 Drawing figures

Exemplary Claim Number: 14
Number of Drawing Sheets: 14

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document ID](#) | [Claims](#) | [RICO](#) | [Drawn D.](#)

31. Document ID: US 5648789 A

L10: Entry 31 of 34

File: USPT

Jul 15, 1997

US-PAT-NO: 5648789

DOCUMENT-IDENTIFIER: US 5648789 A

TITLE: Method and apparatus for closed captioning at a performance

DATE-ISSUED: July 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beadles; Robert L.	Durham	NC		
Ball; John E. D.	Vienna	VA		

US-CL-CURRENT: 345/8; 353/122, 359/630

ABSTRACT:

Apparatus for providing closed captioning at a performance comprises means for encoding a signal representing the written equivalent of spoken dialogue. The signal is synchronized with the spoken dialog and transmitted to wearable glasses of a person watching the performance. The glasses include receiving and decoding circuits and means for projecting a display image into the field of view of the person watching the performance representing at least one line of captioning. The field of view of the displayed image is equivalent to the field of view of the performance. A related method for providing closed captioning further includes the step of accommodating for different interpupillary distances of the person wearing the glasses.

53 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Document ID](#) | [Claims](#) | [RICO](#) | [Drawn D.](#)

32. Document ID: US 5581492 A

L10: Entry 32 of 34

File: USPT

Dec 3, 1996

US-PAT-NO: 5581492

DOCUMENT-IDENTIFIER: US 5581492 A

TITLE: Flexible wearable computer

DATE-ISSUED: December 3, 1996

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janik; Craig M.	Palo Alto	CA		

US-CL-CURRENT: 361/683; 361/680, 361/730, D14/300

ABSTRACT:

A flexible wearable computer in the form of a belt comprising in combination, elements for computing comprising a microprocessor module, a RAM-I/O module, a plurality of mass memory modules, a power supply module, and a plurality of bus termination modules operationally associated with a plurality of flexible signal relaying means. The computing elements are mechanically associated with a flexible non-stretchable member, and a protective covering means. The flexible non-stretchable wearable member is secured around various parts of the body. An input and output device is connected to the flexible wearable computer by the I/O bus attached to the output and input ports.

34 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	R00IC	Drawn D.
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33. Document ID: US 5491651 A

L10: Entry 33 of 34

File: USPT

Feb 13, 1996

US-PAT-NO: 5491651

DOCUMENT-IDENTIFIER: US 5491651 A

** See image for Certificate of Correction **

TITLE: Flexible wearable computer

DATE-ISSUED: February 13, 1996

INVENTOR - INFORMATION:

Janik, Craig M

US CI CURRENT: 361/683; 361/680; 361/730

ABSTRACT:

A flexible

elements for computing comprising a microprocessor module, a RAM-1/O module, a plurality of mass memory modules, a power supply module, and a plurality of bus termination modules operationally associated with a plurality of flexible signal relaying means. The computing elements are mechanically associated with a flexible non-stretchable member, and a protective covering means. The flexible non-stretchable wearable member is secured around various parts of the body. An input

and output device is connected to the flexible wearable computer by the I/O bus attached to the output and input ports.

20 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

34. Document ID: US 5285398 A

L10: Entry 34 of 34

File: USPT

Feb 8, 1994

US-PAT-NO: 5285398

DOCUMENT-IDENTIFIER: US 5285398 A

TITLE: Flexible wearable computer

DATE-ISSUED: February 8, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janik; Craig M.	Palo Alto	CA		

US-CL-CURRENT: 361/683; 361/680, 361/730, D14/300

ABSTRACT:

A flexible wearable computer in the form of a belt comprising in combination, elements for computing comprising a microprocessor module (200), a RAM-I/O module (300), a plurality of mass memory modules (400), a power supply module (500), and a plurality of bus termination modules (100) operationally associated with a plurality of flexible signal relaying circuit (002a, 002b, 002c, 002d, 002e, 002f). The computing elements are mechanically associated with a flexible nonstretchable member (004), and a protective covering device (006). The flexible nonstretchable wearable member (004) is secured around the waist by belt latches (005a, 005b). An input and output device (060) is connected to the flexible wearable computer by the I/O bus (061) attached to the output and input ports (326), and (327) respectively.

20 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

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1. Document ID: US 6470376 B1

L48: Entry 1 of 4

File: USPT

Oct 22, 2002

US-PAT-NO: 6470376

DOCUMENT-IDENTIFIER: US 6470376 B1

** See image for Certificate of Correction **

TITLE: Processor capable of efficiently executing many asynchronous event tasks

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Takaharu	Katano			JP
Maenobu; Kiyoshi	Amagasaki			JP
Yoshioka; Kosuke	Neyaga			JP
Hirai; Makoto	Suita			JP
Kiyohara; Tokuzo	Osaka			JP

US-CL-CURRENT: 718/108; 718/106

ABSTRACT:

The counter 52 is set with an initial value of "1" and is a counter with a maximum value of "4". This counter 52 increments the count value held by the flip-flop 51 in synchronization with a clock signal so that the count value changes as shown by the progression 1,2,3,4,1,2,3,4. This clock signal is also used by the instruction decode control unit 11 to control the execution of instructions, with the counting by the counter 52 being performed once for each instruction execution performed by the instruction decode control unit 11. The comparator 54 compares the count value counted by the counter 52 with the maximum value "4", and when the values match, sets the task switching signal chg_task_ex at a "High" value, so that the processing switches to the execution of the next task.

28 Claims, 65 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 56

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	IOMC	Dra
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2. Document ID: US 5457815 A

L48: Entry 2 of 4

File: USPT

Oct 10, 1995

US-PAT-NO: 5457815

DOCUMENT-IDENTIFIER: US 5457815 A

TITLE: RBDS scan, identify and select receiving method and system

DATE-ISSUED: October 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morewitz, II; Herbert	Newport News	VA	23606	

US-CL-CURRENT: 455/161.1; 455/133, 455/158.1, 455/184.1

ABSTRACT:

An RBDS compatible receiving method and system are provided. A broadcast receiver is tuned to a selected broadcast frequency. A first of two RBDS receivers operates in a locked mode to receive RBDS data associated with the selected broadcast frequency. Simultaneously, the second of the two RBDS receivers operates in a scanning mode to scan RBDS data associated with all broadcast frequencies. Match criteria corresponding with one or more categorical portions of RBDS data is compared with the RBDS signal associated with each broadcast frequency scanned by the RBDS receiver operating in the scanning mode. Each time a match occurs, the broadcast receiver can optionally be switched from the selected frequency to the broadcast frequency on which the match occurred while the first and second RBDS receivers switch operating modes.

14 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	RWNC	Dra
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 3. Document ID: US 4188507 A

L48: Entry 3 of 4

File: USPT

Feb 12, 1980

US-PAT-NO: 4188507

DOCUMENT-IDENTIFIER: US 4188507 A

** See image for Certificate of Correction **

TITLE: Remotely controlled telephone answering apparatus

DATE-ISSUED: February 12, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meri; Kalju	Maspeth	NY		
Allen; Richard G.	Pound Ridge	NY		

US-CL-CURRENT: 379/77; 340/7.29

ABSTRACT:

Telephone answering apparatus adapted to be coupled to a telephone line and having a first storage medium, such as a first magnetic tape, for storing announcement information and remote telephone number information, and a second storage medium, such as a second magnetic tape, upon which are recorded messages which are received via the telephone line. In response to an incoming telephone call, the first tape is driven so as to transmit the prerecorded announcement, and at the conclusion of this announcement the first tape is stopped and the second tape is driven so as to record an incoming message. A timing circuit is actuated for the duration of the incoming message so as to determine whether it exceeds a minimum duration. At the conclusion of the incoming message, a calling circuit is actuated to resume driving the first tape so that the remote telephone number information is transmitted, thereby dialing a remote telephone station. If a user of the machine is located at the remote telephone station, he can transmit a coded signal which is detected by a code detector at the telephone answering apparatus so as to cause the messages previously recorded on the second tape to be played back. In the event that the recorded messages are not played back, for example, if the dialed remote telephone is not answered or if the coded signal is not transmitted, a repeat circuit re-energizes the calling circuit a preset number of times, or until such recorded messages are played back. In another embodiment of this apparatus, the announcement and remote telephone number information which are recorded on the first tape can be revised from any remote telephone station. In a still further embodiment, the first tape also may be provided with a page message which is adapted to be transmitted to an automatic paging installation associated with the remote telephone number. In accordance with this page message, a user of the apparatus, who also is a subscriber to the paging installation, will be apprised that a telephone message had been recorded on his telephone answering apparatus and is awaiting retrieval.

28 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KM/C	Drau...
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4. Document ID: US 3975583 A

L48: Entry 4 of 4

File: USPT

Aug 17, 1976

US-PAT-NO: 3975583

DOCUMENT-IDENTIFIER: US 3975583 A

TITLE: Emergency civil defense alarm and communications systems

DATE-ISSUED: August 17, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meadows; Talmadge W.	Decatur	AL		

US-CL-CURRENT: 348/460; 348/484, 725/33, 725/36

ABSTRACT:

In a cable television distribution system, an emergency pre-empt system is located at a transmission station separate from the distribution station. This pre-empt system contains circuitry for interrupting the normal distribution of cable television signals and for enabling an emergency operator to present desired audio and video information to the viewers of the receivers serviced by the distribution system irrespective of the channel to which a receiver may be tuned.

12 Claims, 3 Drawing figures

Exemplary Claim Number: 3

Number of Drawing Sheets: 3

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L47 and (emergency ADJ announcement)

4

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